Yuasa Technical Data Sheet

Yuasa REC50-12I Industrial VRLA Battery

Specifications	
Nominal voltage (V)	12
20-hr rate Capacity to 10.5V at 20°C (Ah)	50
10-hr rate Capacity to 10.8V at 20°C (Ah)	40

Dimensions

 Length (mm)
 197 (±2)

 Width (mm)
 165 (±2)

 Height (mm)
 175 (±2)

 Mass (kg)
 15.3

Terminal Type

Threaded terminal - (M=Male or F=Female) M5 (F)
Torque (Nm) 2-3Nm

Operating Temperature Range

Storage (in fully charged condition) $-15^{\circ}\text{C to } +50^{\circ}\text{C}$ Charge $-0^{\circ}\text{C to } +40^{\circ}\text{C}$ Discharge $-15^{\circ}\text{C to } +40^{\circ}\text{C}$

Storage

Capacity loss per month at 20°C (% approx.)

Case Material

Standard ABS (UL94:HB) FR version available UL94:V0

Charge Voltage

Float charge voltage at 20°C (V)/Block 13.65 (\pm 1%) Float charge voltage at 20°C (V)/Cell 2.275 (\pm 1%)

Float Chg voltage tmp correction factor from std -3

20°C (mV)

Cyclic (or Boost) charge Voltage at 20°C (V)/Block 14.52 (±3%)
Cyclic (or Boost) charge Voltage at 20°C (V)/Cell 2.42 (±3%)
Cyclic Chg voltage tmp correction factor from std -4

20°C (mV)

Charge Current

Float charge current limit (A) 12.5 Cyclic (or Boost) charge current limit (A) 12.5

Maximum Discharge Current

1 second (A) 400 1 minute (A) 185

Cyclic Life Data

 100% DOD down to 80% capacity
 300

 75% DOD down to 80% capacity
 500

 50% DOD down to 80% capacity
 600

 25% DOD down to 80% capacity
 1400

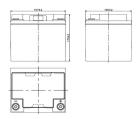
Impedance

Measured at 1 kHz (m Ω) 5.7





Layout



3rd Party Certifications

ISO9001 - Quality Management Systems UNDERWRITERS LABORATORIES Inc.





Safety

Installation

Can be installed and operated in any orientation except permanently inverted.

Handles

Batteries must not be suspended by their handles (where fitted).

Vent valves

Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.

Gas release

VRLA batteries release hydrogen gas which can form explosive mixtures in the air. Do not place inside a sealed container.

Recycling

YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and regulations.









